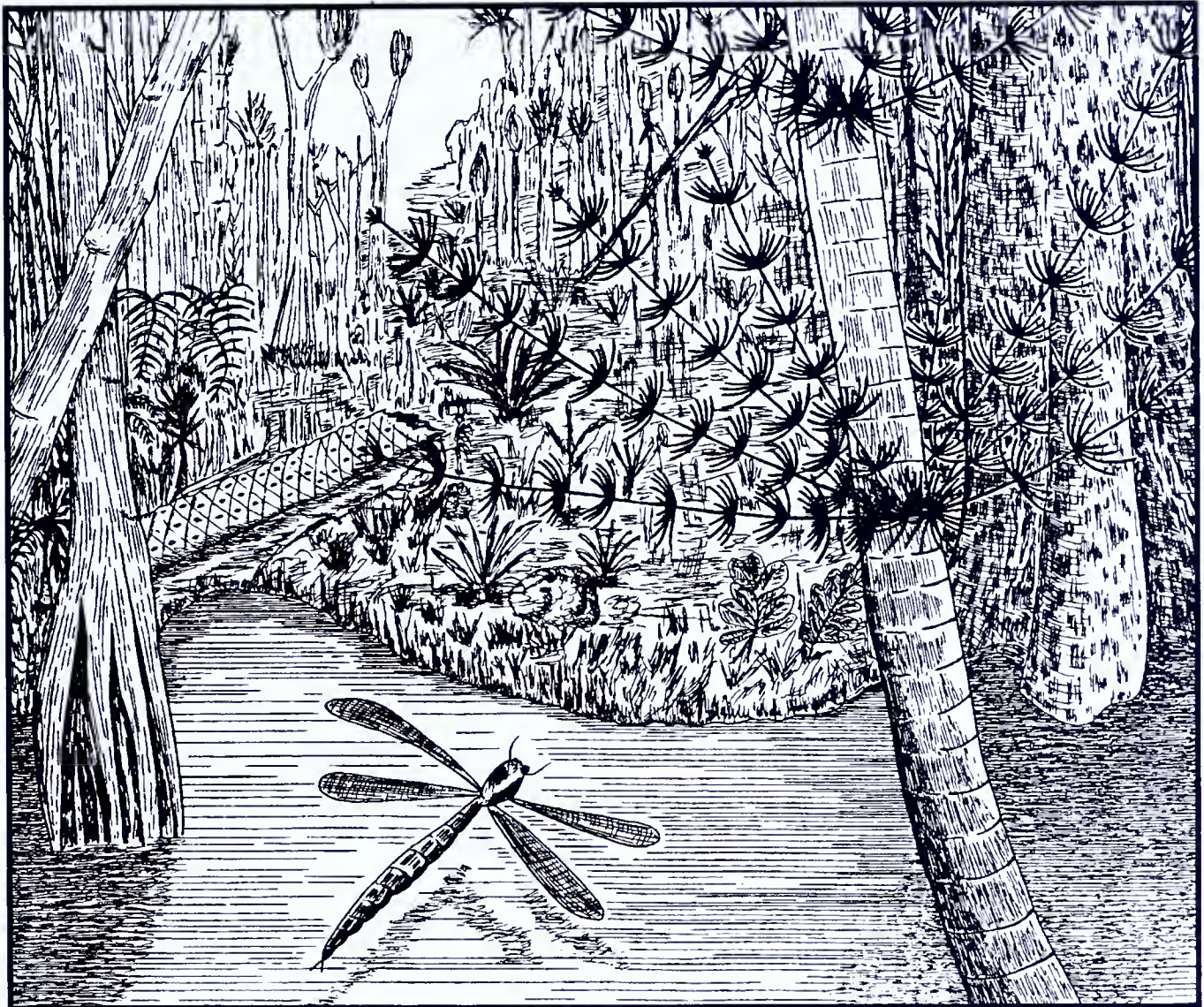




PENNSYLVANIA GEOLOGICAL PUBLICATIONS



COMMONWEALTH OF PENNSYLVANIA

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BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY

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August 2008



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Not all libraries have complete sets of Survey publications. Please call to check availability of the publication of interest and the hours of library operation. Some college libraries are not open to the general public.

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Easton	Easton Area Public Library Lafayette College, Skillman Library	Somerset	Somerset County Library
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Exton	Chester County Library	Villanova	Villanova University, Falvey Library
Harrisburg	Dauphin County Library System	Warren	Warren Public Library
Hazleton	Pennsylvania State University, Hazleton Campus Library	Washington	Citizens Library
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Jim Thorpe	Dimmick Memorial Library	Wilkes-Barre	Osterhout Free Library
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Kutztown	Kutztown University, Rohrbach Library	Youngwood	Westmoreland County Community College, Learning Resources Center
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Lock Haven	Lock Haven University, Stevenson Library Ross Library		
Mansfield	Mansfield University Library		
Meadville	Allegheny College, Pelletier Library		

PENNSYLVANIA GEOLOGICAL PUBLICATIONS

Compiled by Caron O'Neil and Anne B. Lutz
Pennsylvania Geological Survey

COVER: A typical scene of a Pennsylvanian-age coal swamp. Such swamps were common throughout much of Pennsylvania about 300 million years ago. Vegetation accumulated, was buried, and later was converted to the bituminous and anthracite coal beds mined in Pennsylvania today. The ancestral dragonfly in the foreground had a wingspread of about 2 feet. Drafted by John G. Kuchinski.

PENNSYLVANIA GEOLOGICAL SURVEY

FOURTH SERIES

HARRISBURG

2008

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HOW TO ORDER PUBLICATIONS

Unless otherwise noted, **free publications** and **open-file reports** may be obtained from:

Department of Conservation and Natural Resources
Bureau of Topographic and Geologic Survey
3240 Schoolhouse Road
Middletown, PA 17057-3534
717-702-2017

Cost publications may be purchased over the counter or by mail from:

State Bookstore
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120-0053
717-787-5109

COST PUBLICATIONS: Orders sent to the State Bookstore should include \$4.00 shipping/handling for the first publication and \$0.50 for each additional publication (the exception is Special Publication 1; see page 36 for pricing information and page 57 for an order form). Add **6 percent state sales tax** to the price of all publications purchased over the counter or mailed to a Pennsylvania address (tax also applies to shipping/handling charges). If an order is to be mailed to a foreign address, there will be an additional charge for postage and handling; please call the State Bookstore for details. Make check or money order payable to **Commonwealth of Pennsylvania**. VISA and MasterCard are also accepted, as are orders by telephone. If desired, an invoice can be sent. Stamps will not be accepted as payment. An order form is included for your convenience on page 55.

OPEN-FILE REPORTS: Orders sent to the Bureau for open-file reports to be mailed to a Pennsylvania address should include **6 percent state sales tax**. Make check or money order payable to **Commonwealth of Pennsylvania**. Credit cards will not be accepted. An order form is included for your convenience on page 59.

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HOW TO OBTAIN TOPOGRAPHIC MAPS OF PENNSYLVANIA

Topographic maps of Pennsylvania are prepared by the U.S. Geological Survey in cooperation with the Pennsylvania Bureau of Topographic and Geologic Survey. Persons wishing to know the names and scales of topographic maps that are available for Pennsylvania should refer to **Pennsylvania—Index to Topographic and Other Map Coverage**. Names, dates, and prices of maps currently available are listed in **Catalog of Topographic and Other Published Maps**. Both of these publications are free upon request from either of the following agencies:

Department of Conservation and Natural Resources
Bureau of Topographic and Geologic Survey
3240 Schoolhouse Road
Middletown, PA 17057-3534
717-702-2017
www.dcnr.state.pa.us/topogeo/

U.S. Geological Survey Information Services
P. O. Box 25286
Denver, CO 80225
1-888-ASK-USGS
topomaps.usgs.gov/

Topographic maps may be purchased from the U.S. Geological Survey at the address listed in the right-hand column above. Ordering information and order forms are included in **Catalog of Topographic and Other Published Maps**.

THE GEOLOGICAL SURVEYS OF PENNSYLVANIA

There have been four geological surveys of Pennsylvania and four resulting series of publications:

First Survey, 1836–1842, 1851–1858: Publications—6 annual reports, 2 quarto-volumes, and a state geologic map.

Second Survey, 1874–1895: Publications—81 volumes, 35 atlases, and 6 grand atlases.

Third (Commission) Survey, 1899–1919: Publications—6 biennial reports and 12 economic reports, some of which are listed in this book.

Fourth Survey, 1919–present: Most publications (fourth series) are listed in this book. The list does not include superseded or replaced reports that are out of print.

All reports of the first three geological surveys and some of the reports of the present (fourth) survey are out of print.

SOURCES OF OUT-OF-PRINT REPORTS

Many hard-copy reports appearing in this list of publications are marked with an asterisk (*), indicating that they are out of print and no longer available for distribution. Some reports are marked with a dagger (†), indicating that they are temporarily out of print and that new editions are in preparation. Out-of-print reports are available for study in many libraries throughout the state (see list on inside front cover). Some of these publications have been released as online editions (see below).

The library of the Bureau of Topographic and Geologic Survey, 3240 Schoolhouse Road, Middletown, telephone 717-702-2020, is open for public use and contains most of the Pennsylvania Geological Survey reports, as well as many of the U.S. Geological Survey and other governmental and institutional reports related to Pennsylvania.

ONLINE PUBLICATIONS

Some of the reports in this list of publications are available online and are marked with a double dagger (‡). They fall into three categories: (1) publications released in digital form on the Bureau's web site, (2) reports released in hard-copy form but also available as PDF files on the Bureau's web site, and (3) out-of-print hard-copy reports that are now available on the Bureau's web site or on another web site. Links to the pertinent web sites are provided for each online publication at www.dcnr.state.pa.us/topogeo/pub/index.aspx.

MAP SCALES

Common map scales referred to in the list of publications and their equivalent distances are as follows:

SCALE	EQUIVALENT DISTANCE	SCALE	EQUIVALENT DISTANCE
1:6,000	1 inch = 500 feet	1:125,000	1 inch = approx. 2 miles
1:12,000	1 inch = 1,000 feet	1:250,000	1 inch = approx. 4 miles
1:16,000	1 inch = 1,333 feet	1:500,000	1 inch = approx. 8 miles
1:24,000	1 inch = 2,000 feet	1:380,160	1 inch = 6 miles
1:48,000	1 inch = 4,000 feet	1:1,000,000	1 inch = approx. 16 miles
1:50,000	1 inch = 4,167 feet	1:2,000,000	1 inch = approx. 32 miles
1:62,500	1 inch = approx. 1 mile	1:2,500,000	1 inch = approx. 40 miles

Other map scales cited in the list are followed by their equivalent distances.

FORMAT AND SYMBOLS

The list of publications is arranged by series of reports in alphabetical order. Within each series, the reports are listed in numerical order. In the three-column format, the left column indicates the report series and number. The middle column contains bibliographic information such as the title, author(s), year of publication, number of pages, and number of plates. Also included in this column are notations of bedrock and surficial geologic maps, economic geologic maps, and other maps of particular interest, as well as the scales of the maps. The right column contains information on the printing status or availability of each report and prices of reports that are in print. The symbols used in the right column are as follows:

SYMBOL	MEANING
*	Out of print (see "Sources of Out-of-Print Reports" at the top of this page)
◇	Available free (shipping/handling charge required)
†	Temporarily out of print; new edition in preparation
‡	Available online (see "Online Publications" above)

LIST OF PUBLICATIONS

PENNSYLVANIA GEOLOGICAL SURVEY

Fourth Series

ATLAS SERIES

(Map scale 1:24,000 unless otherwise indicated.)

A 5	New Castle quadrangle—Geology and mineral resources (Bessemer, New Castle South, New Galilee, and Beaver Falls 7.5-minute quadrangles, Lawrence and Beaver Counties, and part of East Palestine and New Middletown 7.5-minute quadrangles, Columbiana County, Ohio), F. W. DeWolf. 1929. 238 p., 18 pls., bedrock geol. map, surficial geol. map, econ. geol. map, scale 1:62,500	* ‡
A 27	Geology and mineral resources of the Pittsburgh quadrangle, Pennsylvania (Pittsburgh East, Braddock, Glassport, and McKeesport 7.5-minute quadrangles, Allegheny and Westmoreland Counties), M. E. Johnson. 1929; 3rd printing, 1974. 236 p., 33 pls., geol. map, min. resource map, scale 1:62,500	*
A 33a	Geology and mineral resources of the Oil City quadrangle, Venango County, Pennsylvania , A. N. Ward, Jr., M. T. Lukert, and W. F. Chapman. 1979. Geol. map and text on 1 pl.	6.00
A 36	Freeport quadrangle—Geology and mineral resources (Freeport, Leechburg, New Kensington East, and Vandergrift 7.5-minute quadrangles, Armstrong, Westmoreland, Allegheny, and Butler Counties), H. H. Hughes. 1933. 272 p., 9 pls., geol. map, scale 1:62,500	*
A 37	Mineral resources of the Greensburg quadrangle, Westmoreland County, Pennsylvania (Murrysville, Slickville, Irwin, and Greensburg 7.5-minute quadrangles), M. E. Johnson. 1925; 3rd printing, 1974. 162 p., 13 pls., geol. map, econ. geol. map, scale 1:62,500	*
A 48	Geology and mineral resources of the Donegal quadrangle, Pennsylvania (Mammoth, Stahlstown, Donegal, and Seven Springs 7.5-minute quadrangles, Westmoreland, Fayette, and Somerset Counties), M. N. Shaffner. 1963. 116 p., 4 pls., geol. map, coal reserve maps, scale 1:62,500	4.00
A 54	Geology and mineral resources of the Brookville quadrangle, Pennsylvania (Corsica, Brookville, Summerville, and Coolspring 7.5-minute quadrangles, Jefferson and Clarion Counties), C. K. Graeber and R. M. Foose. 1942; 3rd printing, 1974. 136 p., 16 pls., geol. map, min. resource map, scale 1:62,500	*
A 55	Geology and mineral resources of the Smicksburg quadrangle, Pennsylvania (Dayton, Valier, Plumville, and Marion Center 7.5-minute quadrangles, Jefferson, Indiana, and Armstrong Counties), M. N. Shaffner. 1946; 2nd printing, 1969. 252 p., 11 pls., geol. map, min. resource map, scale 1:62,500	10.50
A 57	Geology and mineral resources of the New Florence quadrangle, Pennsylvania (Bolivar, New Florence, Wilpen, and Rachelwood 7.5-minute quadrangles, Indiana, Westmoreland, Cambria, and Somerset Counties), M. N. Shaffner. 1958. 165 p., 13 pls., geol. and min. resource map, scale 1:62,500; coal reserve maps, scale approx. 1:84,000 (1 in. = approx. 1.3 mi)	6.00
A 64	Geology and mineral resources of the Hazen, Falls Creek, Reynoldsville, and DuBois quadrangles, Clearfield and Jefferson Counties, Pennsylvania , A. D. Glover and W. A. Bragonier. 1978. 131 p., 16 pls., geol. map, scale 1:24,000; coal resource maps, scale 1:48,000	25.00
A 65	Geology and mineral resources of the Punxsutawney quadrangle, Pennsylvania (Punxsutawney, McGees Mills, Rochester Mills, and Burnside 7.5-minute	

* Out of print; ‡ available online

	quadrangles, Jefferson, Indiana, and Clearfield Counties), G. H. Ashley. 1926; 2nd printing, 1969. 145 p., 6 pls., geol. map, min. resource map, scale 1:62,500.....	8.50
A 74ab	Geology and mineral resources of the Sabula and Penfield quadrangles, Clearfield, Elk, and Jefferson Counties, Pennsylvania , T. M. Berg and A. D. Glover. 1976. 98 p., 10 pls., geol. map, scale 1:24,000; coal reserve map, foundation and excavation map, scale 1:48,000.....	22.00
A 74cd	Geology and mineral resources of the southern half of the Penfield 15-minute quadrangle, Pennsylvania (Luthersburg and Elliott Park 7.5-minute quadrangles, Clearfield County), W. E. Edmunds and T. M. Berg. 1971; 2nd printing, 1973. 184 p., 22 pls., geol. map, scale 1:24,000; coal reserve maps, foundation and excavation map, scale 1:48,000.....	10.00
A 75	Geology and mineral resources of the Curwensville quadrangle (Mahaffey, Curwensville, Westover, and Irvona 7.5-minute quadrangles, Clearfield County), G. H. Ashley. 1940; 3rd printing, 1974. 140 p., 4 pls., geol. map, min. resource map, scale 1:62,500.....	7.00
A 84cd	Geology and mineral resources of the southern half of the Clearfield 15-minute quadrangle, Pennsylvania (Clearfield and Leontes Mills 7.5-minute quadrangles, Clearfield County), A. D. Glover. 1970; 2nd printing, 1973. 139 p., 15 pls., geol. map, scale 1:24,000; coal reserve maps, foundation and excavation map, scale 1:48,000.....	9.00
A 85ab	Geology and mineral resources of the northern half of the Houtzdale 15-minute quadrangle, Pennsylvania (Glen Richey and Wallacetown 7.5-minute quadrangles, Clearfield County), W. E. Edmunds. 1968; 2nd printing, 1973. 150 p., 15 pls., geol. map, scale 1:24,000; coal reserve maps, scale 1:48,000.....	8.00
A 85cd	Geology and mineral resources of the Ramey and Houtzdale quadrangles, Clearfield and Centre Counties, Pennsylvania , G. B. Glass, W. E. Edmunds, V. C. Shepps, and others. 1977. 94 p., 10 pls., geol. map, scale 1:24,000; coal resource maps, foundation and excavation map, scale 1:48,000.....	22.00
A 86	Geology and mineral resources of the Blandburg, Tipton, Altoona, and Bellwood quadrangles, Blair, Cambria, Clearfield, and Centre Counties, Pennsylvania , R. T. Faill, A. D. Glover, and J. H. Way. 1989. 209 p., 10 pls., bedrock geol. map, scale 1:24,000; surficial geol. map, coal resource maps, scale 1:48,000.....	34.00
A 95a	Geology and mineral resources of the Philipsburg 7½-minute quadrangle, Centre and Clearfield Counties, Pennsylvania , G. B. Glass. 1972. 241 p., 20 pls., geol. map, scale 1:24,000; coal reserve maps, foundation and excavation map, scale 1:48,000.....	12.00
A 96	Tyrone quadrangle—Geology and mineral resources (Tyrone, Franklinville, Spruce Creek, and Alexandria 7.5-minute quadrangles, Blair, Huntingdon, and Centre Counties), Charles Butts, F. M. Swartz, and Bradford Willard. 1939. 118 p., 14 pls., geol. map, scale 1:62,500.....	*
A 109a	Bedrock and surficial geology of the McConnellsburg quadrangle, Pennsylvania (Fulton and Franklin Counties), K. L. Pierce. 1966; 2nd printing, 1974. 111 p., 3 pls., bedrock geol. map, surficial geol. map.....	*
A 119ab	Geology and mineral resources of northeastern Franklin County, Pennsylvania , S. I. Root. 1971; 3rd printing, 1992. 104 p., 2 pls., geol. map.....	13.50
A 119cd	Geology and mineral resources of southeastern Franklin County, Pennsylvania , S. I. Root. 1968. 118 p., 2 pls., geol. map.....	4.00
A 124a	Geology and mineral resources of the Lock Haven quadrangle, Clinton and Lycoming Counties, Pennsylvania , A. R. Taylor. 1977. Geol. map and text on 1 pl.	6.50

A 126	Geology and mineral resources of the Mifflintown quadrangle, Pennsylvania (Alfarata, McClure, Mifflintown, and Mexico 7.5-minute quadrangles, Juniata, Mifflin, and Snyder Counties), R. R. Conlin and D. M. Hoskins. 1962. 46 p., 2 pls., geol. map	6.00
A 127	Geology and mineral resources of the Loysville quadrangle, Pennsylvania (Spruce Hill, Ickesburg, Andersonburg, and Landisburg 7.5-minute quadrangles, Perry, Juniata, and Cumberland Counties), J. T. Miller. 1961. 47 p., 2 pls., geol. map	10.50
A 129a	Geology of the Caledonia Park quadrangle area, South Mountain, Pennsylvania (Adams, Cumberland, and Franklin Counties), J. L. Fauth. 1968; 2nd printing, 1992. 133 p., 7 pls., geol. map	19.00
A 129c	Geology and mineral resources of the Iron Springs area, Adams and Franklin Counties, Pennsylvania , J. L. Fauth. 1978. 72 p., 1 pl., geol. map....	8.50
A 133cd	Geology and mineral resources of the Salladasburg and Cogan Station quadrangles, Lycoming County, Pennsylvania , R. T. Faill, R. B. Wells, and W. D. Sevon. 1977. 44 p., 2 pls., bedrock geol. map, surficial geol. map	13.00
A 134ab	Geology and mineral resources of the Linden and Williamsport quadrangles, Lycoming County, Pennsylvania , R. T. Faill, R. B. Wells, and W. D. Sevon. 1977. 66 p., 2 pls., bedrock geol. map, surficial geol. map.....	15.50
A 136	Geology and mineral resources of the Millerstown quadrangle, Perry, Juniata, and Snyder Counties, Pennsylvania (Beaver Springs, Richfield, Millers-town, and Reward 7.5-minute quadrangles), R. T. Faill and R. B. Wells. 1974. 276 p., 6 pls., geol. map, scale 1:24,000; tectonic and environ. geol. map, scale 1:48,000	27.00
A 137ab	Geology and mineral resources of the northern half of the New Bloomfield quadrangle (Newport and Duncannon 7.5-minute quadrangles, Perry County), J. L. Dyson. 1963. 63 p., 1 pl., geol. map.....	3.00
A 137cd	Geology and mineral resources of the southern half of the New Bloomfield quadrangle, Pennsylvania (Shermans Dale and Wertzville 7.5-minute quadrangles, Perry and Cumberland Counties), J. L. Dyson. 1967; 2nd printing, 1974. 86 p., 1 pl., geol. map	5.00
A 138ab	Geology and mineral resources of the Carlisle and Mechanicsburg quadrangles, Cumberland County, Pennsylvania , S. I. Root. 1978. Geol. map and text on 1 pl.	* ‡
A 143cd	Geology and mineral resources of the Montoursville North and Huntersville quadrangles, Lycoming County, Pennsylvania , R. B. Wells and M. F. Bucek. 1980. 68 p., 2 pls., bedrock geol. map, surficial geol. map.....	15.50
A 144ab	Geology and mineral resources of the Montoursville South and Muncy quadrangles and part of the Hughesville quadrangle, Lycoming, Northumberland, and Montour Counties, Pennsylvania , R. T. Faill. 1979. 114 p., 2 pls., bedrock geol. map, surficial geol. map	17.00
A 144cd	Geology and mineral resources of the Allenwood and Milton quadrangles, Union and Northumberland Counties, Pennsylvania , J. D. Inners. 1997. 135 p., 3 pls., bedrock geol. map, surficial geol. map, scale 1:24,000; min. production map, scale 1:48,000	24.00
A 146	Geology and mineral resources of the Millersburg 15-minute quadrangle, Dauphin, Juniata, Northumberland, Perry, and Snyder Counties, Pennsylvania (Dalmatia, Pillow, Millersburg, and Elizabethville 7.5-minute quadrangles), D. M. Hoskins. 1976. 38 p., 2 pls., geol. map	*
A 148ab	Geology and mineral resources of the Harrisburg West area, Cumberland and York Counties, Pennsylvania , S. I. Root. 1977. 106 p., 1 pl., geol. map ..	* ‡

A 154cd	Geology and mineral resources of the Washingtonville and Millville quadrangles, Montour, Columbia, and Northumberland Counties, Pennsylvania , J. H. Way. 1993. 51 p., 2 pls., bedrock geol. map, surficial geol. map.....	15.00
A 157d	Geology, mineral resources and environmental geology of the Palmyra quadrangle, Lebanon and Dauphin Counties , A. R. Geyer. 1970. 46 p., 1 pl., geol. map	* ‡
A 164cd	Geology and mineral resources of the Bloomsburg and Mifflinville quadrangles and part of the Catawissa quadrangle, Columbia County, Pennsylvania , J. D. Inners. 1981. 152 p., 2 pls., bedrock geol. map, surficial geol. map	16.50
A 167c	Geology of the Lebanon quadrangle (Lebanon County), A. R. Geyer, Carlyle Gray, D. B. McLaughlin, and J. R. Moseley. 1958. 1 pl., geol. map with text on reverse	2.50
A 167d	Geology of the Richland quadrangle (Lebanon and Lancaster Counties), Carlyle Gray, A. R. Geyer, and D. B. McLaughlin. 1958. 1 pl., geol. map with text on reverse	2.50
A 168	Lancaster quadrangle—Geology and mineral resources (Manheim, Lititz, Columbia East, and Lancaster 7.5-minute quadrangles, Lancaster and Lebanon Counties), A. I. Jonas and G. W. Stose. 1930. 106 p., 23 pls., geol. map, scale 1:62,500.....	*
A 174c	Geology and mineral resources of the Berwick quadrangle, Luzerne and Columbia Counties, Pennsylvania , J. D. Inners. 1978. 34 p., 2 pls., bedrock geol. map, surficial geol. map	14.00
A 177c	Geology and mineral resources of the Womelsdorf quadrangle (Lancaster, Lebanon, and Berks Counties), A. R. Geyer, T. V. Buckwalter, D. B. McLaughlin, and Carlyle Gray. 1963. 96 p., 1 pl., geol. map	3.50
A 177d	Geology and mineral resources of the Sinking Spring quadrangle, Berks and Lancaster Counties, Pennsylvania , D. B. MacLachlan, T. V. Buckwalter, and D. B. McLaughlin. 1975. 228 p., 3 pls., geol. map, scale 1:24,000; tectonic map, scale approx. 1:62,500	20.50
A 178	Geology and mineral resources of the New Holland quadrangle, Pennsylvania (Ephrata, Terre Hill, Leola, and New Holland 7.5-minute quadrangles, Lancaster County), A. I. Jonas and G. W. Stose. 1926; 2nd printing, 1969. 40 p., 7 pls., geol. map, scale 1:62,500.....	4.50
A 187ab	Geology and mineral resources of the Temple and Fleetwood quadrangles, Berks County, Pennsylvania , D. B. MacLachlan. 1979. 71 p., 2 pls., geol. map, scale 1:24,000; environ. geol. map, tectonic map, scale 1:48,000.....	14.50
A 187cd	Geology and mineral resources of the Reading and Birdsboro quadrangles, Berks County, Pennsylvania , D. B. MacLachlan. 1983; revised, 1992. Geol. map and text on 1 pl.	10.00
A 189b	Bedrock geology of the Coatesville quadrangle, Chester County, Pennsylvania , G. C. Blackmer. 2004. 16 p., 2 pls., 5 datasets, bedrock geol. map, CD-ROM.....	5.00
A 194cd	Geology and mineral resources of the Hickory Run and Blakeslee quadrangles, Carbon and Monroe Counties, Pennsylvania , W. D. Sevon. 1975. 2 pls., bedrock geol. map with text on reverse, surficial geol. map	11.00
A 195ab	Geology and mineral resources of the Christmans and Pohopoco Mountain quadrangles, Carbon and Monroe Counties, Pennsylvania , W. D. Sevon. 1975. 2 pls., bedrock geol. map with text on reverse, surficial geol. map ...	13.00
A 195cd	Geology and mineral resources of the Lehigh and Palmerton quadrangles, Carbon and Northampton Counties, Pennsylvania , J. B. Epstein, W. D.	

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MAPS

(Maps 16–19, 21–26, 28–37, 40, 46–47, 50–58, and 60 are out of print and have been replaced by a new series of 7.5-minute oil and gas base maps (1:24,000 scale). For ordering and price information, please contact A. H. Mathias and Company, Inc., 950 Penn Avenue, Pittsburgh, PA 15222, telephone 412–281–1800. When ordering the maps, please provide the 7.5-minute topographic map name of each map desired. An index to the available maps may be obtained by contacting the Bureau of Topographic and Geologic Survey, Subsurface Geology Section, 400 Waterfront Drive, Pittsburgh, PA 15222–4745, telephone 412–442–4235, between 8:00 a.m. and 4:00 p.m. weekdays.)

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W 35	Summary ground-water resources of Allegheny County, Pennsylvania , J. T. Gallaher. 1973. 71 p., 1 pl., geol. map, scale 1:125,000.....	*
W 36	Summary ground-water resources of Butler County, Pennsylvania , C. W. Poth. 1973. 49 p., 1 pl., geol. map, scale 1:125,000.....	*
W 37	Summary ground-water resources of Westmoreland County, Pennsylvania , T. G. Newport. 1973. 49 p., 1 pl., geol. map, scale 1:125,000.....	*
W 38	Summary ground-water resources of Washington County, Pennsylvania , T. G. Newport. 1973. 32 p., 1 pl., geol. map, scale 1:125,000.....	* ‡
W 39	Summary ground-water resources of Beaver County, Pennsylvania , C. W. Poth. 1973. 39 p., 1 pl., geol. map, scale 1:125,000.....	*
W 40	Summary ground-water resources of Luzerne County, Pennsylvania , T. G. Newport. 1977. 63 p., 1 pl., geol. map, scale 1:125,000	*

* Out of print; ‡available online

W 41	Ground-water resources of Lackawanna County, Pennsylvania , J. R. Hollowell and H. E. Koester. 1975. 106 p., 3 pls., geol. map, scale 1:62,500	*
W 42	Ground-water resources of central and southern York County, Pennsylvania , O. B. Lloyd, Jr., and D. J. Growitz. 1977. 93 p., 2 pls., geol. map, scale 1:62,500	* ‡
W 43	Summary ground-water resources of Lancaster County, Pennsylvania , C. W. Poth. 1977. 80 p., 1 pl., geol. map, scale 1:125,000	*
W 44	Geology and groundwater resources of northern Berks County, Pennsylvania , C. R. Wood and D. B. MacLachlan. 1978; 2nd printing, 1992. 91 p., 2 pls., geol. map, scale 1:62,500	20.50
W 45	Groundwater resources of the DuBois area, Clearfield and Jefferson Counties, Pennsylvania , E. T. Shuster. 1979. Scale 1:48,000, 2 pls., geol. map with short text	6.00
W 46	Geology and groundwater resources of western Crawford County, Pennsylvania , G. R. Schiner and J. T. Gallaher. 1979. 103 p., 3 pls., geol. map, map showing thickness of glacial deposits, scale 1:50,000	* ‡
W 47	Geology and groundwater resources of Monroe County, Pennsylvania , L. D. Carswell and O. B. Lloyd, Jr. 1979. 61 p., 1 pl., geol. map, scale 1:48,000	*
W 48	Summary groundwater resources of Centre County, Pennsylvania , C. R. Wood. 1980. 60 p., 1 pl., geol. map, scale 1:100,000 (1 in. = approx. 1.6 mi)	10.50
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W 51	Groundwater resources of the Williamsport region, Lycoming County, Pennsylvania , O. B. Lloyd, Jr., and L. D. Carswell. 1981. 69 p., 2 pls., geol. map, scale 1:50,000	10.00
W 52	Summary groundwater resources of Adams County, Pennsylvania , L. E. Taylor and D. W. Royer. 1981. 50 p., 1 pl., geol. map, scale 1:50,000	* ‡
W 53	Groundwater resources in the Cumberland and contiguous valleys of Franklin County, Pennsylvania , A. E. Becher and L. E. Taylor. 1982. 67 p., 1 pl., geol. map, scale 1:50,000	9.00
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W 55	Summary groundwater resources of Lebanon County, Pennsylvania , D. W. Royer. 1983. 84 p., 1 pl., geol. map, scale 1:50,000	* ‡
W 56	Groundwater resources of the West Branch Susquehanna River basin, Pennsylvania , L. E. Taylor, W. H. Werkheiser, and M. L. Kriz. 1983. 143 p., 1 pl., geol. map, scale 1:250,000	* ‡
W 57	Groundwater resources of the Lower Susquehanna River basin, Pennsylvania , L. E. Taylor and W. H. Werkheiser. 1984; 2nd printing, 1986. 130 p., 1 pl., geol. map, scale 1:250,000	15.00
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W 59	Summary groundwater resources of Perry County, Pennsylvania , D. W. Royer. 1984. 70 p., 1 pl., geol. map, scale 1:50,000	15.00
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W 62	Groundwater resources of Erie County, Pennsylvania , D. B. Richards, H. J. McCoy, and J. T. Gallaher. 1987. 101 p., 2 pls., geol. map, scale 1:62,500	* ‡
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W 64	Groundwater resources in and near the anthracite basins of Schuylkill and adjacent counties, Pennsylvania , A. E. Becher. 1991. 59 p., 1 pl., geol. map, scale 1:100,000 (1 in. = approx. 1.6 mi)	11.00
W 65	Groundwater resources of Pike County, Pennsylvania , D. K. Davis. 1989. 63 p., 2 pls., bedrock geol. map, surficial geol. map, scale 1:50,000	17.00
W 66	Groundwater resources of Delaware County, Pennsylvania , W. T. Balmer and D. K. Davis. 1996. 67 p., 1 pl., geol. map, scale 1:50,000	10.50
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W 68	Hydrogeology and groundwater quality of the glaciated valleys of Bradford, Tioga, and Potter Counties, Pennsylvania , J. H. Williams, L. E. Taylor, and D. J. Low. 1998. 89 p., 1 pl. on 2 sheets, surficial geol. map, scale 1:100,000 (1 in. = approx. 1.6 mi)	14.50
W 69	Hydrogeologic and well-construction characteristics of the rocks of Pennsylvania , G. M. Fleeger, T. A. McElroy, and M. E. Moore. 2004. Database (Microsoft Access 97 and 2000), CD-ROM	5.00

SELECTED PUBLICATIONS

Pennsylvania geology. A quarterly (originally bimonthly) publication issued by the Bureau of Topographic and Geologic Survey. Generally 16 p., illustrated in two colors. Series begins with v. 1, no. 1, August 1969. Issues back to v. 28, no. 1/2, 1997, are available online	free ‡
Pennsylvania. Excerpts from U.S. Bureau of Mines Minerals Yearbook. Generally 8–12 p. Annual publication on nonfuel mineral production in Pennsylvania for the years 1988–91	free

PENNSYLVANIA TOPOGRAPHIC AND GEOLOGIC SURVEY COMMISSION (Third Survey)

SELECTED PUBLICATIONS

ECONOMIC REPORTS

1	Geology of the oil and gas fields in Sewickley quadrangle , M. J. Munn. 1910. 171 p., 10 pls.	*
2	Geologic map of southwestern Pennsylvania . 1914. 29 p., 10 pls.	*

* Out of print; ‡ available online

3	Geology of the oil and gas fields of the Clarion quadrangle , M. J. Munn. 1910. 111 p., 9 pls.	*
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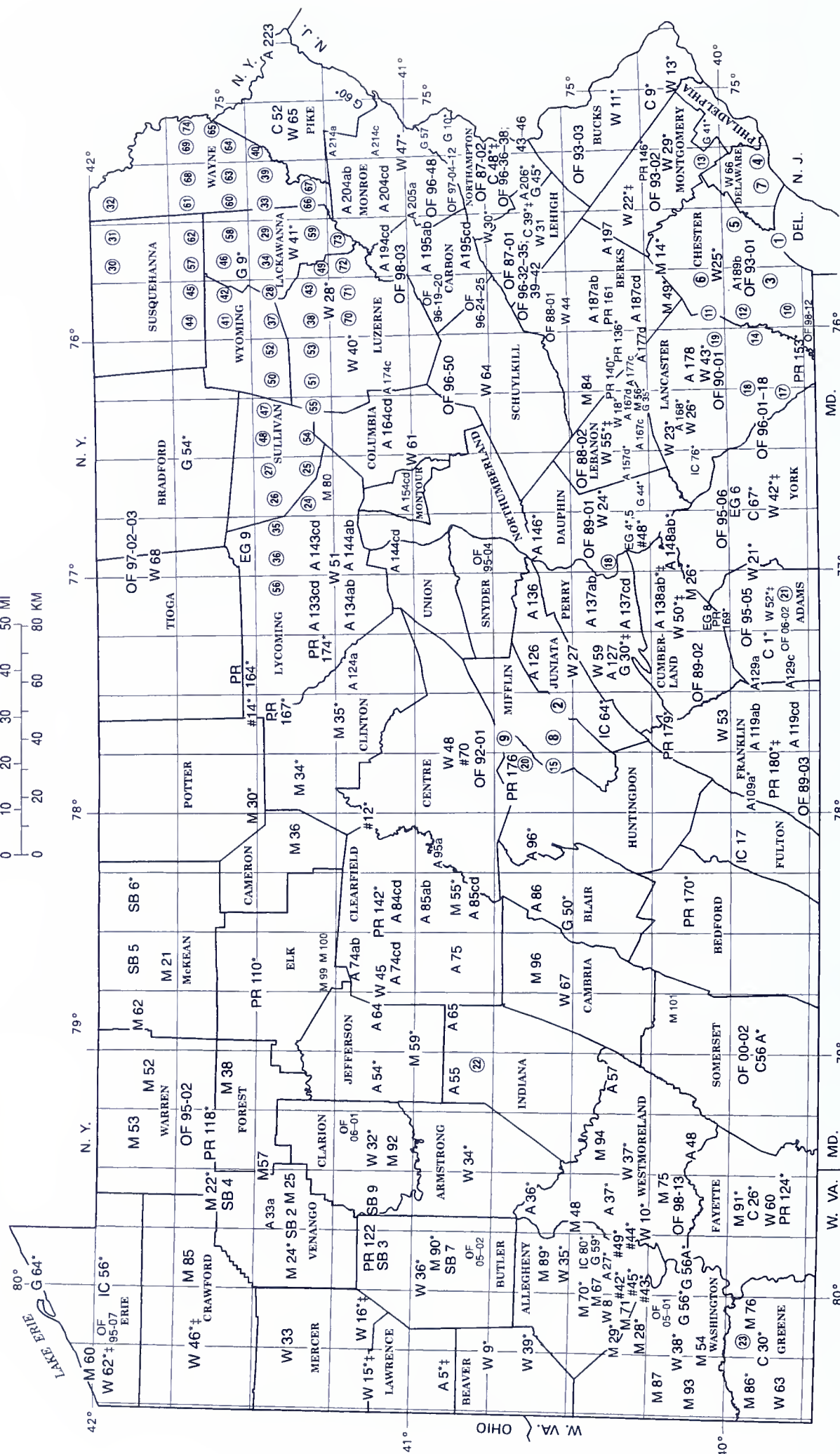
BIENNIAL REPORTS*(Reports contain mineral resource data.)*

Report of Topographic and Geologic Survey Commission of Pennsylvania, 1910–1912 . 1912. 182 p., 21 pls.	*
Report of Topographic and Geologic Survey Commission of Pennsylvania, 1913–1914 . 1914. 232 p., 5 pls.	*

KEY TO AREAL REPORTS

- A — Atlas Series
 C — County Report
 EG — Environmental Geology Report
 G — General Geology Report
 IC — Information Circular
 # — Map
 M — Mineral Resource Report
 OF — Open-File Report
 PR — Progress Report
 SB — Special Bulletin
 W — Water Resource Report
 * — Out of print
 ‡ — Available online

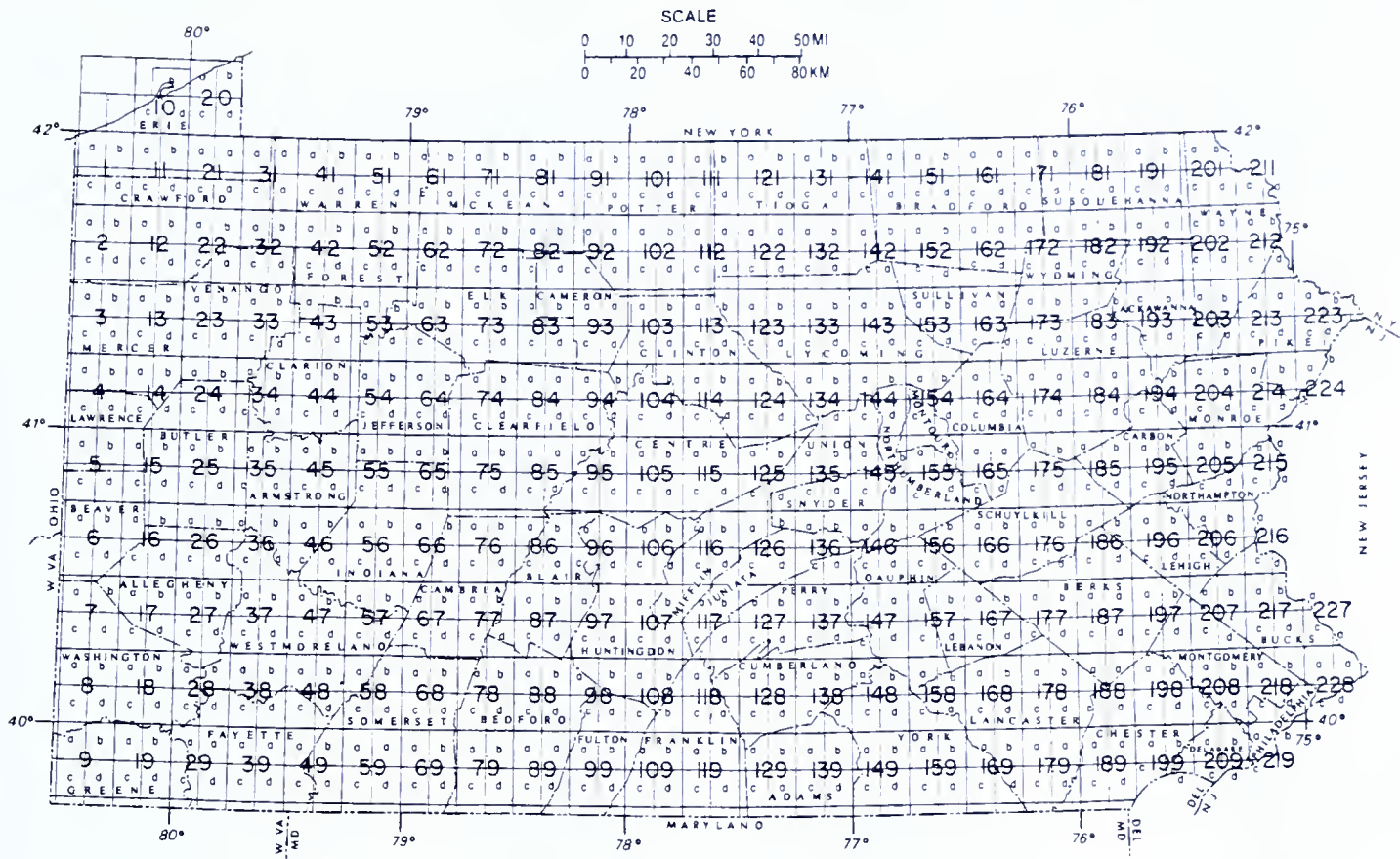
SCALE



EXPLANATION

- | | | | | | | | | | |
|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ① OFBM 04-01.0 | ⑧ OFBM 05-07.0 | ⑮ OFBM 07-02.0 | ②② OFMR 08-01.0 | ②⑧ OFSM 06-02.0 | ③⑥ OFSM 06-09.1 | ④③ OFSM 06-16.2 | ⑤⑦ OFSM 07-05.0 | ⑥④ OFSM 08-05.0 | ⑦① OFSM 08-12.0 |
| ② OFBM 04-02.0 | ⑨ OFBM 05-08.0 | ⑯ OFBM 07-03.0 | ②③ OFMR 08-02.0 | ③⑦ OFSM 06-03.0 | ④④ OFSM 06-10.0 | ④④ OFSM 06-17.0 | ⑤⑧ OFSM 07-06.1 | ⑥⑤ OFSM 08-06.0 | ⑦② OFSM 08-13.0 |
| ③ OFBM 05-01.0 | ⑩ OFBM 06-01.0 | ⑰ OFBM 07-04.0 | ②④ OFSM 04-01.1 | ③⑧ OFSM 06-04.0 | ④⑤ OFSM 06-11.1 | ④⑤ OFSM 06-18.0 | ⑤⑨ OFSM 07-07.0 | ⑥⑥ OFSM 08-07.0 | ⑦③ OFSM 08-14.0 |
| ④ OFBM 05-02.0 | ⑪ OFBM 06-02.0 | ⑱ OFBM 07-05.0 | ②⑤ OFSM 04-02.1 | ③⑨ OFSM 06-05.0 | ④⑥ OFSM 06-12.1 | ④⑥ OFSM 07-01.0 | ⑤⑩ OFSM 07-08.1 | ⑥⑦ OFSM 08-08.0 | ⑦④ OFSM 08-15.0 |
| ⑤ OFBM 05-03.0 | ⑫ OFBM 06-03.0 | ⑲ OFBM 08-01.0 | ②⑥ OFSM 05-01.0 | ④⑦ OFSM 06-06.1 | ④⑦ OFSM 06-13.0 | ④⑦ OFSM 07-02.0 | ⑤⑪ OFSM 07-09.0 | ⑥⑧ OFSM 08-09.0 | |
| ⑥ OFBM 05-05.0 | ⑬ OFBM 06-04.0 | ⑳ OFBM 08-02.0 | ②⑦ OFSM 05-02.0 | ④⑧ OFSM 06-07.0 | ④⑧ OFSM 06-14.0 | ④⑧ OFSM 07-03.0 | ⑤⑫ OFSM 07-10.0 | ⑥⑨ OFSM 08-10.0 | |
| ⑦ OFBM 05-06.0 | ⑭ OFBM 07-01.0 | ㉑ OFFG 08-01.0 | ②⑧ OFSM 06-01.1 | ④⑨ OFSM 06-08.0 | ④⑨ OFSM 06-15.0 | ④⑨ OFSM 07-04.0 | ⑤⑬ OFSM 07-11.0 | ⑦⑤ OFSM 08-11.0 | |

KEY TO QUADRANGLE NUMBERING SYSTEM



QUADRANGLE INDEX

The following list is to be used in conjunction with the index map above. The names of 15-minute quadrangles correspond to the numbered headings, and the associated 7.5-minute quadrangles correspond to the lettered headings. The index begins with the 15-minute quadrangle located in the upper left corner of the map.

- | | | | |
|---------------------|---------------------|-------------------------|-------------------|
| 1. Girard | 5. New Castle | 9. Rogersville | 13. Stoneboro |
| a. East Springfield | a. Bessemer | a. Wind Ridge | a. Hadley |
| b. Albion | b. New Castle South | b. Rogersville | b. New Lebanon |
| c. Beaver Center | c. New Galilee | c. New Freeport | c. Jackson Center |
| d. Conneautville | d. Beaver Falls | d. Holbrook | d. Sandy Lake |
| 2. Linesville | 6. Beaver | 10. Erie | 14. Mercer |
| a. Linesville | a. Midland | a-b. Erie North | a. Mercer |
| b. Harmonsburg | b. Beaver | c. Swanville | b. Grove City |
| c. Hartstown | c. Hookstown | d. Erie South | c. Harlansburg |
| d. Conneaut Lake | d. Aliquippa | | d. Slippery Rock |
| 3. Shenango | 7. Burgettstown | 11. Cambridge Springs | 15. Zelienople |
| a. Greenville West | a. Burgettstown | a. Edinboro North | a. Portersville |
| b. Greenville East | b. Clinton | b. Cambridge Springs NE | b. Prospect |
| c. Sharpsville | c. Avella | c. Edinboro South | c. Zelienople |
| d. Fredonia | d. Midway | d. Cambridge Springs | d. Evans City |
| 4. Neshannock | 8. Claysville | 12. Meadville | 16. Sewickley |
| a. Sharon East | a. West Middletown | a. Meadville | a. Baden |
| b. Greenfield | b. Washington West | b. Blooming Valley | b. Mars |
| c. Edinburg | c. Claysville | c. Geneva | c. Ambridge |
| d. New Castle North | d. Prosperity | d. Cochranon | d. Emsworth |

17. Carnegie
 - a. Oakdale
 - b. Pittsburgh West
 - c. Canonsburg
 - d. Bridgeville
18. Amity
 - a. Washington East
 - b. Hackett
 - c. Amity
 - d. Ellsworth
19. Waynesburg
 - a. Waynesburg
 - b. Mather
 - c. Oak Forest
 - d. Garards Fort
20. North East
 - a. Harborcreek
 - b. North East
 - c. Hammett
 - d. Wattsburg
21. Union City
 - a. Waterford
 - b. Union City
 - c. Millers Station
 - d. Lake Canadohta
22. Townville
 - a. Townville
 - b. Centerville
 - c. Sugar Lake
 - d. Dempseytown
23. Franklin
 - a. Utica
 - b. Franklin
 - c. Polk
 - d. Kennerdell
24. Hilliards
 - a. Barkeyville
 - b. Eau Claire
 - c. West Sunbury
 - d. Hilliards
25. Butler
 - a. Mount Chestnut
 - b. East Butler
 - c. Butler
 - d. Saxonburg
26. New Kensington
 - a. Valencia
 - b. Curtisville
 - c. Glenshaw
 - d. New Kensington West
27. Pittsburgh
 - a. Pittsburgh East
 - b. Braddock
 - c. Glassport
 - d. McKeesport
28. Brownsville
 - a. Monongahela
 - b. Donora
 - c. California
 - d. Fayette City
29. Masontown
 - a. Carmichaels
 - b. New Salem
 - c. Masontown
 - d. Smithfield
31. Corry
 - a. Corry
 - b. Columbus
 - c. Spartansburg
 - d. Spring Creek
32. Titusville
 - a. Titusville North
 - b. Grand Valley
 - c. Titusville South
 - d. Pleasantville
33. Oil City
 - a. Oil City
 - b. President
 - c. Cranberry
 - d. Kossuth
34. Foxburg
 - a. Emlenton
 - b. Knox
 - c. Parker
 - d. Rimersburg
35. Kittanning
 - a. Chicora
 - b. East Brady
 - c. Worthington
 - d. Kittanning
36. Freeport
 - a. Freeport
 - b. Leechburg
 - c. New Kensington East
 - d. Vandergrift
37. Greensburg
 - a. Murrys ville
 - b. Slickville
 - c. Irwin
 - d. Greensburg
38. Connellsville
 - a. Smithton
 - b. Mount Pleasant
 - c. Dawson
 - d. Connellsville
39. Uniontown
 - a. Uniontown
 - b. South Connellsville
 - c. Brownfield
 - d. Fort Necessity
41. Youngsville
 - a. Lottsville
 - b. Sugar Grove
 - c. Pittsfield
 - d. Youngsville
42. Tidioute
 - a. Tidioute
 - b. Cobham
 - c. West Hickory
 - d. Kellettville
43. Tionesta
 - a. Tionesta
 - b. Tylersburg
 - c. Fryburg
 - d. Lucinda
44. Clarion
 - a. Clarion
 - b. Strattanville
 - c. Sligo
 - d. New Bethlehem
45. Rural Valley
 - a. Templeton
 - b. Distant
 - c. Mosgrove
 - d. Rural Valley
46. Elders Ridge
 - a. Whitesburg
 - b. Elderton
 - c. Avonmore
 - d. McIntyre
47. Latrobe
 - a. Saltsburg
 - b. Blairsville
 - c. Latrobe
 - d. Derry
48. Donegal
 - a. Mammoth
 - b. Stahlstown
 - c. Donegal
 - d. Seven Springs
49. Confluence
 - a. Mill Run
 - b. Kingwood
 - c. Ohiopyle
 - d. Confluence
51. Warren
 - a. Russell
 - b. Scandia
 - c. Warren
 - d. Clarendon
52. Sheffield
 - a. Cherry Grove
 - b. Sheffield
 - c. Mayburg
 - d. Lynch
53. Marienville
 - a. Marienville West
 - b. Marienville East
 - c. Cooksburg
 - d. Sigel
54. Brookville
 - a. Corsica
 - b. Brookville
 - c. Summerville
 - d. Coolspring
55. Smicksburg
 - a. Dayton
 - b. Valier
 - c. Plumville
 - d. Marion Center
56. Indiana
 - a. Ernest
 - b. Clymer
 - c. Indiana
 - d. Brush Valley
57. New Florence
 - a. Bolivar
 - b. New Florence
 - c. Wilpen
 - d. Rachelwood
58. Somerset
 - a. Ligonier
 - b. Boswell
 - c. Bakersville
 - d. Somerset
59. Meyersdale
 - a. Rockwood
 - b. Murdock
 - c. Markleton
 - d. Meyersdale
61. Kinzua
 - a. Complanter Run
 - b. Stickney
 - c. Complanter Bridge
 - d. Westline
62. Kane
 - a. Ludlow
 - b. Kane
 - c. Russell City
 - d. James City
63. Hallton
 - a. Hallton
 - b. Portland Mills
 - c. Munderf
 - d. Carman
64. Du Bois
 - a. Hazen
 - b. Falls Creek
 - c. Reynolds ville
 - d. Du Bois
65. Punxsutawney
 - a. Punxsutawney
 - b. McGees Mills
 - c. Rochester Mills
 - d. Burnside
66. Barnesboro
 - a. Commodore
 - b. Barnesboro
 - c. Strongstown
 - d. Colver
67. Johnstown
 - a. Vintondale
 - b. Nanty Glo
 - c. Johnstown
 - d. Geistown
68. Windber
 - a. Hooversville
 - b. Windber
 - c. Stoystown
 - d. Central City
69. Berlin
 - a. Berlin
 - b. New Baltimore
 - c. Wittenberg
 - d. Fairhope
71. Bradford
 - a. Bradford
 - b. Derrick City
 - c. Lewis Run
 - d. Cyclone
72. Mt. Jewett
 - a. Mt. Jewett
 - b. Hazel Hurst
 - c. Wilcox
 - d. Glen Hazel
73. Ridgway
 - a. Ridgway
 - b. Saint Marys
 - c. Brandy Camp
 - d. Kersey

- | | | | |
|---|--|---|---|
| 74. Penfield
a. Sabula
b. Penfield
c. Luthersburg
d. Elliott Park | 88. Everett
a. New Enterprise
b. Hopewell
c. Everett West
d. Everett East | 103. Renovo West
a. Hammersley Fork
b. Tamarack
c. Keating
d. Renovo West | 117. East Waterford
a. McVeytown
b. McCoysville
c. Blairs Mills
d. Blain |
| 75. Curwensville
a. Mahaffey
b. Curwensville
c. Westover
d. Irvona | 89. Clearville
a. Clearville
b. Mench
c. Chaneyville
d. Amaranth | 104. Snow Shoe
a. Snow Shoe NW
b. Snow Shoe NE
c. Snow Shoe
d. Snow Shoe SE | 118. Shippensburg
a. Doylesburg
b. Newburg
c. Roxbury
d. Shippensburg |
| 76. Patton
a. Hastings
b. Coalport
c. Carrolltown
d. Ashville | 91. Coudersport
a. Shinglehouse
b. Oswayo
c. Roulette
d. Coudersport | 105. Bellefonte
a. Bear Knob
b. Bellefonte
c. Julian
d. State College | 119. Chambersburg
a. Chambersburg
b. Scotland
c. Greencastle
d. Waynesboro |
| 77. Ebensburg
a. Ebensburg
b. Cresson
c. Beaverdale
d. Blue Knob | 92. Emporium
a. Keating Summit
b. Austin
c. Emporium
d. Wharton | 106. Allensville
a. Pine Grove Mills
b. McAlevys Fort
c. Donation
d. Allensville | 121. Elkland
a. Knoxville
b. Elkland
c. Asaph
d. Keeneyville |
| 78. Bedford
a. Ogletown
b. Alum Bank
c. Schellsburg
d. Bedford | 93. Driftwood
a. Cameron
b. First Fork
c. Driftwood
d. Sinnemahoning | 107. Mt. Union
a. Mount Union
b. Newton Hamilton
c. Butler Knob
d. Aughwick | 122. Antrim
a. Tiadaghton
b. Antrim
c. Cedar Run
d. Morris |
| 79. Hyndman
a. Buffalo Mills
b. Rainsburg
c. Hyndman
d. Beans Cove | 94. Karthaus
a. Devils Elbow
b. Pottersdale
c. Frenchville
d. Karthaus | 108. Orbisonia
a. Orbisonia
b. Shade Gap
c. Burnt Cabins
d. Fannettsburg | 123. Waterville
a. Cammal
b. English Center
c. Jersey Mills
d. Waterville |
| 81. Smethport
a. Eldred
b. Bullis Mills
c. Smethport
d. Port Allegany | 95. Philipsburg
a. Philipsburg
b. Black Moshannon
c. Sandy Ridge
d. Port Matilda | 109. Mercersburg
a. McConnellsburg
b. St. Thomas
c. Mercersburg
d. Williamson | 124. Lock Haven
a. Lock Haven
b. Jersey Shore
c. Mill Hall
d. Loganton |
| 82. Crosby
a. Crosby
b. Norwich
c. Wildwood Fire
Tower
d. Rich Valley | 96. Tyrone
a. Tyrone
b. Franklinville
c. Spruce Creek
d. Alexandria | 111. Gaines
a. Harrison Valley
b. Potter Brook
c. West Pike
d. Sabinsville | 125. Millheim
a. Millheim
b. Woodward
c. Coburn
d. Weikert |
| 83. Benetzette
a. Rathbun
b. West Creek
c. Weedville
d. Dents Run | 97. Huntingdon
a. Williamsburg
b. Huntingdon
c. Entrioken
d. Cassville | 112. Galetton
a. Galetton
b. Marshlands
c. Oleona
d. Lee Fire Tower | 126. Mifflintown
a. Alfarata
b. McClure
c. Mifflintown
d. Mexico |
| 84. Clearfield
a. Huntley
b. The Knobs
c. Clearfield
d. Leontes Mills | 98. Broad Top
a. Saxton
b. Sallillo
c. Wells Tannery
d. Hustontown | 113. Renovo East
a. Young Womans
Creek
b. Slate Run
c. Renovo East
d. Glen Union | 127. Loysville
a. Spruce Hill
b. Ickesburg
c. Andersonburg
d. Landisburg |
| 85. Houtzdale
a. Glen Richey
b. Wallacetown
c. Ramey
d. Houtzdale | 99. Needmore
a. Breezewood
b. Meadow Grounds
c. Needmore
d. Big Cove Tannery | 114. Howard
a. Howard NW
b. Farrandsville
c. Howard
d. Beech Creek | 128. Newville
a. Newville
b. Plainfield
c. Walnut Bottom
d. Dickinson |
| 86. Altoona
a. Blandburg
b. Tipton
c. Altoona
d. Bellwood | 101. Genesee
a. Ellisburg
b. Ulysses
c. Sweden Valley
d. Brookland | 115. Centre Hall
a. Mingoville
b. Madisonburg
c. Centre Hall
d. Spring Mills | 129. Fairfield
a. Caledonia Park
b. Arendtsville
c. Iron Springs
d. Fairfield |
| 87. Hollidaysburg
a. Hollidaysburg
b. Frankstown
c. Roaring Spring
d. Martinsburg | 102. Conrad
a. Ayers Hill
b. Cherry Springs
c. Conrad
d. Short Run | 116. Lewistown
a. Barrville
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Much additional information on Pennsylvania geology is available in publications not covered in this list. The reader is referred to Pennsylvania Geological Survey General Geology Reports 34, 42, 61, and 73 for a more comprehensive list of articles on Pennsylvania geology written before 1979.

Abbreviations used in this index are as follows:

Pennsylvania Third (Commission) Survey—Pa. Geol. Survey (3rd)

Pennsylvania Geological Survey, fourth series—Pa. Geol. Survey (4th)

A — Atlas Series

C — County Report

EG — Environmental Geology Report

ES — Educational Series

G — General Geology Report

IC — Information Circular

M — Mineral Resource Report

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